CLAIMS

	1.	A coplanar waveguide line comprising
5		a substrate;
		a central electrode strip on the substrate;
10		first and second electrode strips disposed on opposite sides of the central electrode strip and extending parallel thereto;
15		first and second optical waveguides on the substrate, the optical waveguides being positioned between the first and central electrode strips and extending parallel thereto;
		the central electrode comprising at least one T-rail extending proximate to the first optical waveguide;
20		the first electrode comprising at least one T-rail extending proximate to the second optical waveguide;
25		the substrate comprising an n ⁺ electrically conducting layer extending between the optical waveguides;
2.3		wherein the coplanar waveguide line further comprises an electrical connection between first and second electrode strips.
30	2.	A coplanar waveguide line as claimed in claim 1, wherein

the electrical connection between first and second

electrode strips is an airbridge.

- 3. A coplanar waveguide line as claimed in claim 1, wherein the electrical connection is wire bonded between the first and second electrode strips.
- 5 4. A coplanar waveguide line as claimed in claim 1, wherein the electrical connection between first and second electrodes extends through the back of the substrate.
- 5. A coplanar waveguide line as claimed in any one of claims
 1 to 4, comprising a plurality of electrical connections
 between first and second electrode strips, the electrical
 connections preferably being equally spaced.
- 6. A coplanar waveguide line as claimed in any one of claims
 1 to 5, wherein at least one of the central electrode
 strip and first electrode strip comprises a plurality of
 T-rails, preferably equally spaced.
- 7. A coplanar waveguide line as claimed in any one of claims

 1 to 6, wherein the T-rail comprises a contact pad
 electrically connected to the corresponding electrode
 strip by an airbridge.
- 8. A coplanar waveguide line as claimed in claim 7, wherein the contact pad abuts the optical waveguide.
 - 9. A coplanar waveguide line as claimed in any one of claims 1 to 8, wherein the substrate comprises a first isolation trench which extends through the n⁺ electrically conducting layer between the first electrode strip and optical waveguides.
- A coplanar waveguide line as claimed in any one of claims 1 to 9, wherein the substrate comprises a second isolation trench extending through the n⁺ electrically

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conducting layer between the central electrode strip and the optical waveguides.

- 11. A coplanar waveguide line as claimed in any one of claims

 1 to 10, wherein the substrate comprises a third
 isolation trench extending through the n⁺ electrically
 conducting layer between the central electrode strip and the
 second electrode strip.
- 10 12. A Mach-Zehnder modulator including a coplanar waveguide line as claimed in any one of claims 1 to 11.
 - 13. A coplanar waveguide line substantially as hereinbefore described.
 - 14. A coplanar waveguide line substantially as hereinbefore described with reference to the drawings.
- 15. A Mach-Zehnder modulator substantially as hereinbefore described.
 - 16. A Mach-Zehnder modulator substantially as hereinbefore described with reference to the drawings.

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